

- Regarding Claims 1 to 3
- Cited Documents 1 and 2

Remarks

Cited document 2 (paragraph [0014]) describes the production of a stable self-exciting oscillation characteristic by the appropriate setting of the degree and thickness of doping on a layer that extends from the active layer to the mesa, and the application of this point to the invention of cited document 1 is simple to devise for a person skilled in the art.

It should be noted that particular reference should be made in cited document 1 to the description of the first embodiment.

- Regarding Claim 2
- Cited Documents 1 to 3

Remarks

Cited document 3 describes the self-exciting oscillation of a laser in which the difference in refractive index in the horizontal-lateral direction exerts an influence on the self-exciting oscillation of the laser, and what value is adopted for said difference in refractive index constitutes an element that is able to be established, as appropriate, through testing and so on, by a person skilled in the art.

It should be noted that particular reference should be made in cited document 3 to the description given in paragraphs [0006] to [0007].

- Regarding Claim 4
- Cited Documents 1 and 2

Remarks

Cited document 2 describes the employment of a substrate in which the (001) surface is inclined at 5° or more in the "110" direction and, in addition, the employment of a quantum well that comprises a compressive strain constitutes a well-known technique.

List of Cited Documents etc.

1. Japanese Unexamined Patent Application No. Heisei 11-87831
2. Japanese Unexamined Patent Application No. Heisei 11-354895
3. Japanese Unexamined Patent Application No. Heisei 10-144992